

Service Manual

NATIONAL

TAPE RECORDER

PANASONIC

SOLID STATE 4-CHANNEL/2-CHANNEL STEREO TAPE DECK WITH



NOTE: The difference between both Set is as below.

RS-740US: Using HPF Playback Head.

RS-741US: Using Permalloy Playback Head.

RS-740US MECHANISM SERIES

MODEL RS-741US

MODEL RS-740US

SPECIFICATIONS

Power Source:	AC: 100~250 volts, 50/60 Hz	
Power Consumption:	Approx. 45 W	
Motor:	4-pole induction center float motor	
Transistors:	2SC644(16)	2SC644®(8)
	2SC828(12)	2SC1098(2)
	2SD261(1)	
Diodes:	OA90Z(4)	1S1850(1)
Track System:	4-track, 4-channel stereo system	
Recording Bias System:	AC bias, 160 kHz	
Erasing System:	AC erase	
Tape Speed:	7-1/2 ips, 3-3/4 ips.	
Frequency Response:	20~25,000 Hz (30~22,000Hz ±3 dB) at 7-1/2 ips.	

Wow and Flutter:	Less than 0.09%	
Fast Forward Time:	Approx. 170 seconds with 1,200 feet tape	
Rewind Time:	Approx. 140 seconds with 1,200 feet tape	
Inputs:	4 "MIC"	-65 dB
	4 "LINE IN"	-30 dB 220 kΩ
Outputs:	4 "LINE OUT"	3 kΩ
	4 "SCOPE"	13 kΩ
	2 "HEADPHONES"	8Ω
Dimensions:	16-3/4" (W) × 15-5/8" (H) × 8-3/8" (D)	
Weight:	28-5/8 lbs.	

These specifications are subject to change in order to accommodate improvements in design.

LOCATION OF PARTS

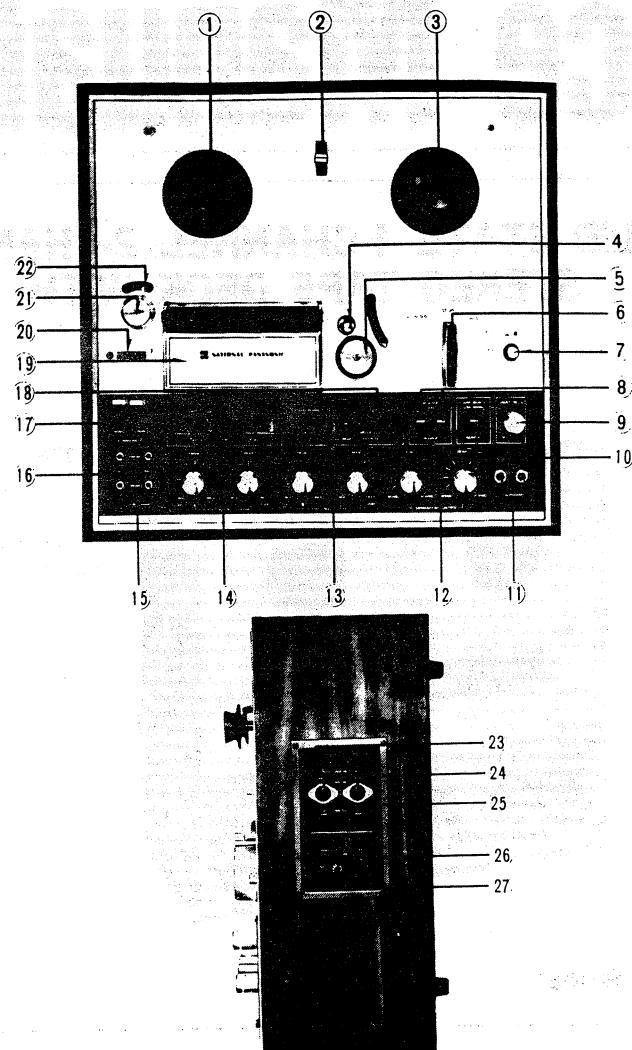


Fig. 1

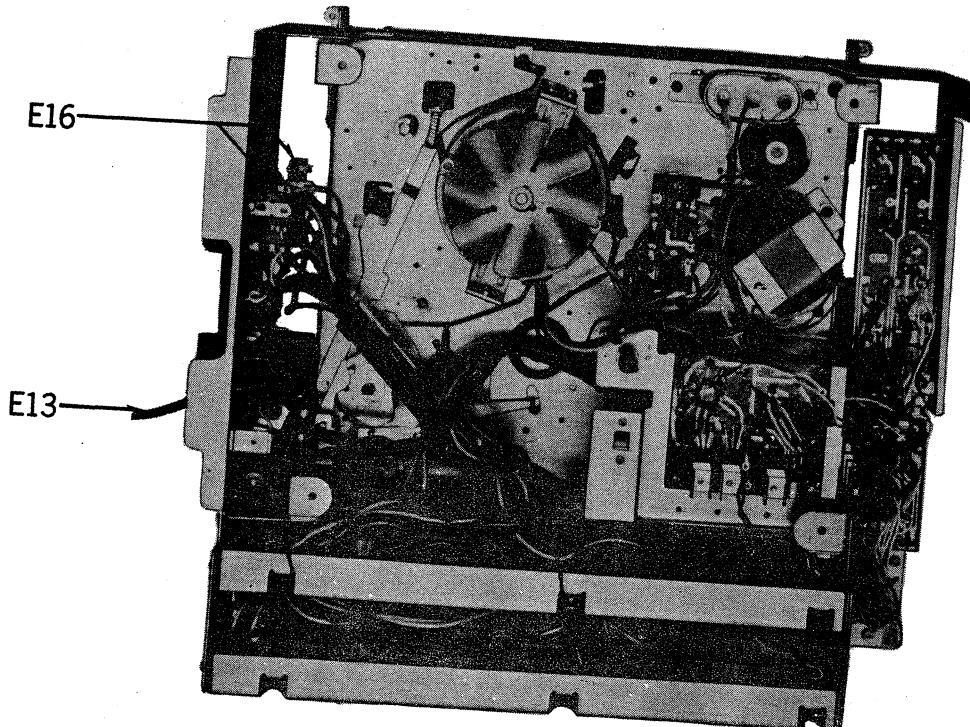
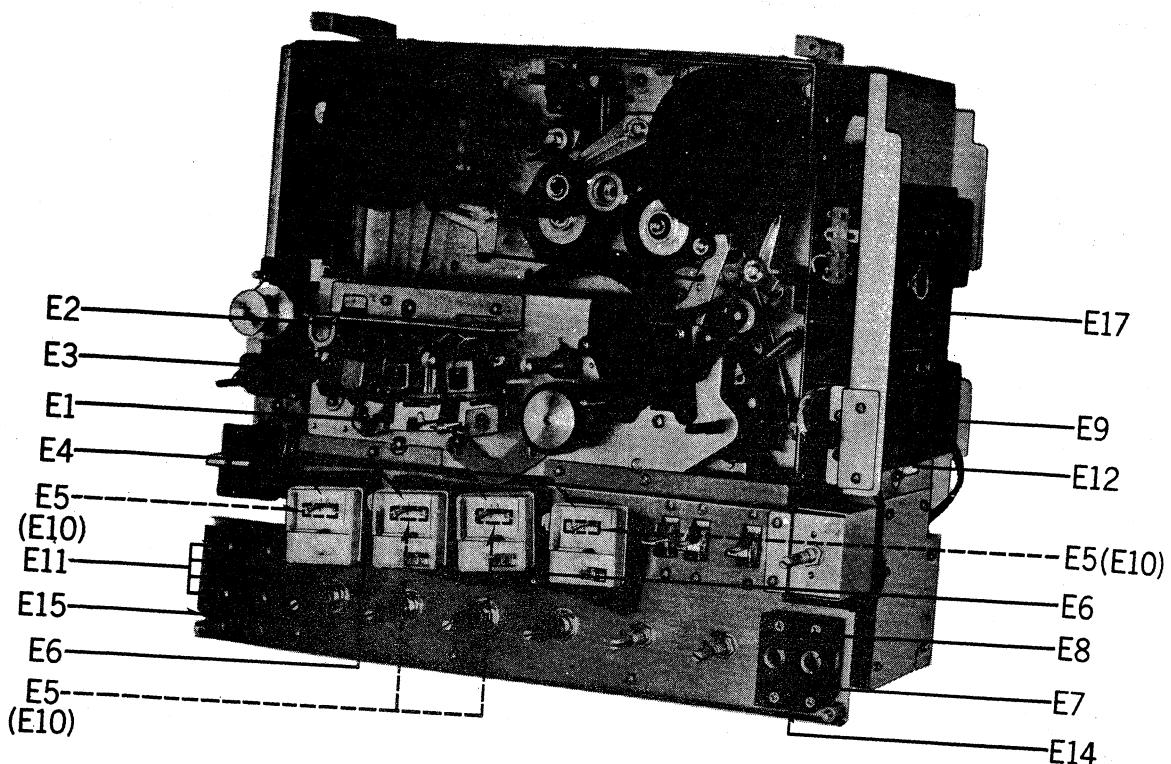
- ① Supply reel table
- ② Tape speed selector
- ③ Take-up reel table
- ④ Capstan
- ⑤ Pressure roller
- ⑥ Function lever
- ⑦ Power switch
- ⑧ Monitor switches
- ⑨ Equalizer selector
- ⑩ Tape selector
- ⑪ Headphone jacks
- ⑫ Separation controls
- ⑬ Output level adjustment controls
- ⑭ Input level controls

- ⑮ Rear microphone jacks
- ⑯ Front microphone jacks
- ⑰ Record buttons
- ⑱ Level meters
- ⑲ Head housing
- ⑳ Tape counter
- ㉑ Guide roller
- ㉒ Tension arm
- ㉓ Line input jacks
- ㉔ Record/playback connectors
- ㉕ Line output jacks
- ㉖ Scope jacks
- ㉗ Fuse

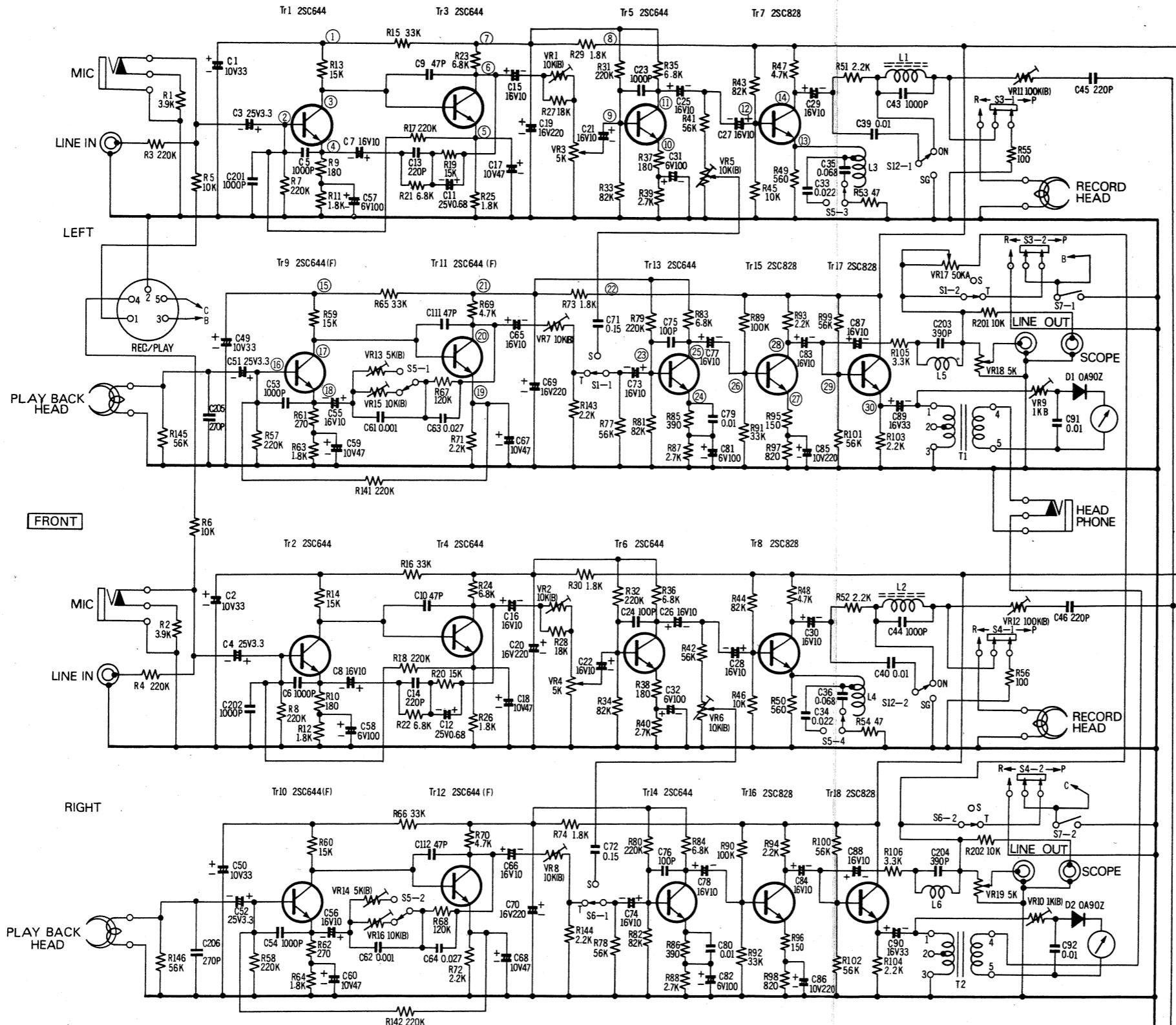
STANDARD VALUE TO BE ADJUSTED

ITEM	VALUE	PARTS TO BE ADJUSTED	REMARKS
Recording bias current.	$1.5 \pm 0.5 \text{ mA}$	VR11 (CH1, CH3) VR12 (CH2, CH4)	Set tape select switch to normal position. Set the volume control to minimum.
Input level.	MIC $-65 \pm 2 \text{ dB}$ LINE $-30 \pm 3 \text{ dB}$ DIN $-36 \pm 3 \text{ dB}$	VR9 (CH1, CH3) VR10 (CH2, CH4)	To obtain $50 \pm 10 \mu\text{A}$ of recording current through the recording head. Set the volume control to maximum.
Bias oscillation frequency.	$160 \pm 15 \text{ kHz}$	—	—
Erase current.	$35 \sim 50 \text{ mA}$	—	—
Takeup tension.	$30 \pm 5 \text{ gr-cm}$	Friction spring.	—
Pressure of pressure roller.	$1.5 \pm 0.2 \text{ kg}$	Pressure roller spring.	—

ELECTRICAL PARTS LOCATION



SCHEMATIC DIAGRAM MODEL RS-741US, RS-740US



STANDARD VOLTAGE CHART

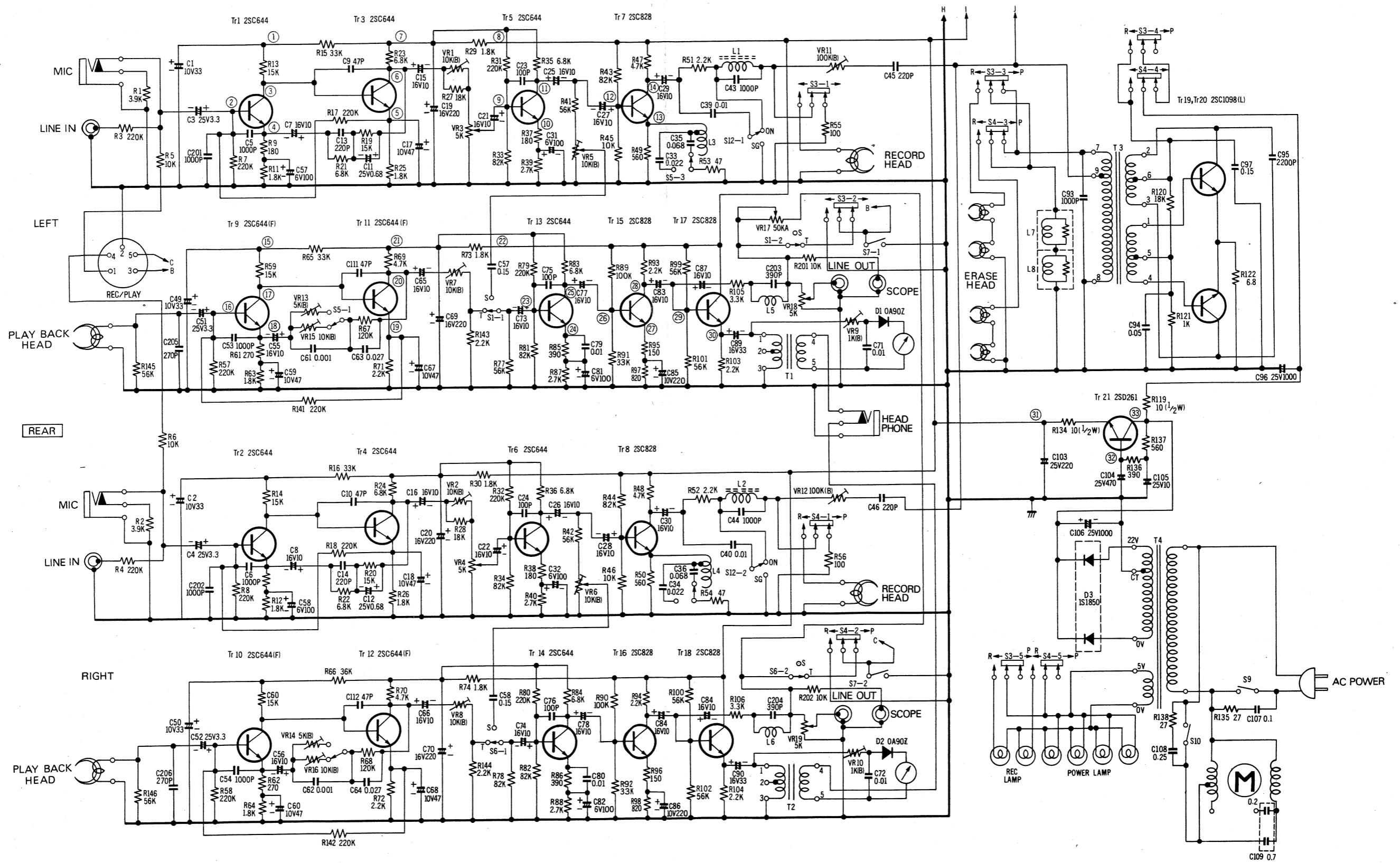
Check Point	Recording	Playback	Check Point	Recording	Playback
①	6.2 V	6.9 V	⑯	0.46 V	0.54 V
②	1.1 V	1.2 V	⑯	2.2 V	2.4 V
③	2.8 V	3.0 V	㉑	9.2 V	10.8 V
④	0.45 V	0.5 V	㉒	14.0 V	16.0 V
⑤	5.1 V	6.4 V	㉓	18.1 V	20.6 V
⑥	2.2 V	2.4 V	㉔	3.6 V	4.0 V
⑦	13.6 V	15.5 V	㉕	3.0 V	3.4 V
⑧	18.0 V	20.5 V	㉖	7.2 V	8.2 V
⑨	3.5 V	4.0 V	㉗	4.2 V	4.8 V
⑩	2.9 V	3.4 V	㉘	3.6 V	4.2 V
⑪	6.6 V	7.3 V	㉙	10.4 V	11.7 V
⑫	1.17 V	1.3 V	㉚	8.6 V	9.9 V
⑬	0.54 V	0.68 V	㉛	8.2 V	9.2 V
⑭	10.1 V	10.4 V	㉜	19.0 V	22.5 V
⑮	6.7 V	7.4 V	㉝	18.8 V	21.4 V
⑯	1.02 V	1.12 V	㉞	19.7 V	22.5 V
㉟	2.84 V	3.04 V			

NOTE:

All measurements are under no signal conditions with volume at minimum position.
Use P-type VTVM for DC voltage measurements.

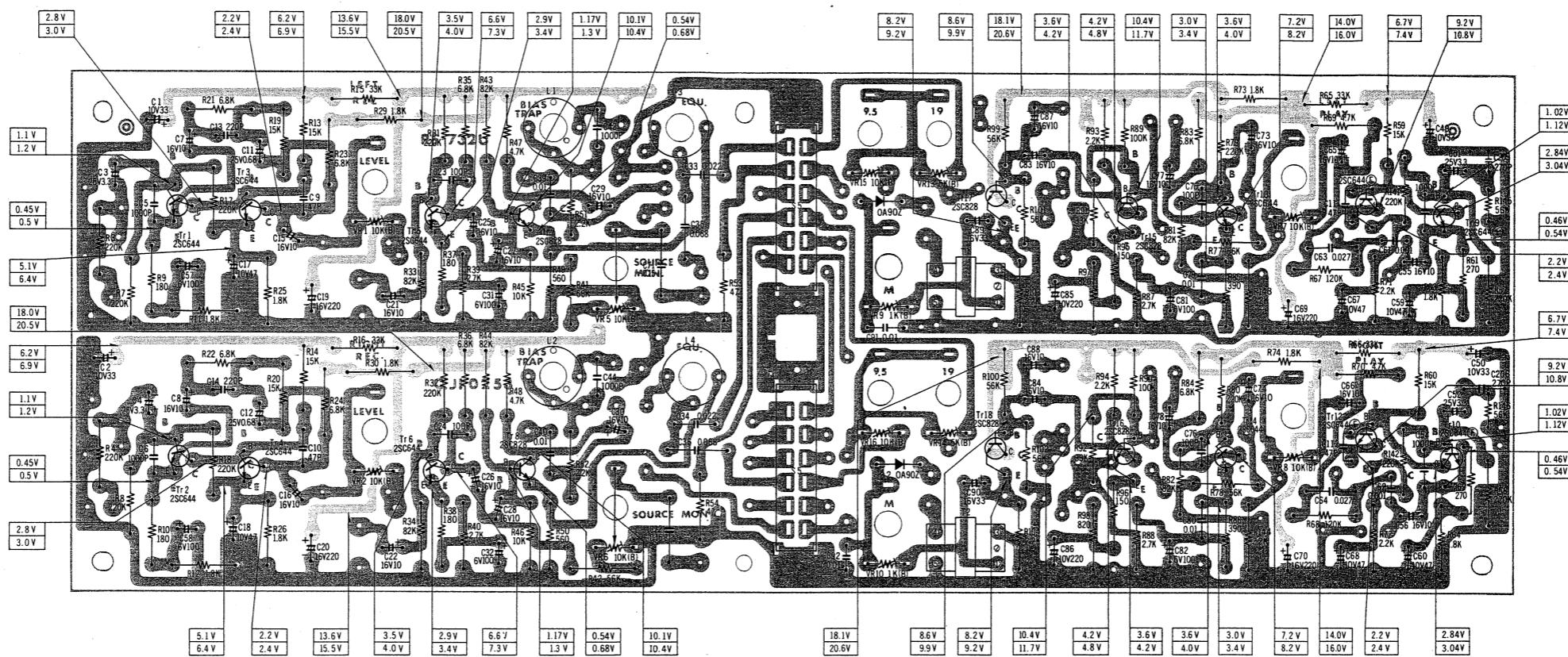
NOTE:

1. S1-1, S1-2 Tape/source select switch (for LEFT-CH).
2. S3-1~S3-5 Record/playback select switch (for LEFT-CH).
3. S4-1~S4-5 Record/playback select switch (for RIGHT-CH).
4. S5-1~S5-4 Equalizer select switch (shown in 9.5 cm/sec tape speed).
5. S6-1, S6-2 Tape/source select switch (for RIGHT-CH).
6. S7-1, S7-2 Stop switch.
7. S9 Power ON/OFF switch.
8. S10 Shut off switch.
9. S11 50 Hz/60 Hz select switch.
10. S12-1, S12-2 Tape select switch.
11. S13-1, S13-2 AC voltage select switch.
12. VR1, 2 Record level adjustment VR.
13. VR3, 4 Volume control.
14. VR5, 6 Source level adjustment VR.
15. VR7, 8 Playback level adjustment VR.
16. VR9, 10 Level indicator adjustment VR.
17. VR11, 12 Bias current adjustment VR.
18. VR13, 14 Playback frequency response adjustment VR at 19 cm/sec.
19. VR15, 16 Playback frequency response adjustment VR at 9.5 cm/sec.
20. VR17 Separation control.
21. VR18, 19 Output level control.
22. Resistor are ohms (Ω), 1/4 watt unless specified otherwise.
 $K=1.000\Omega$, $M=1.000.000\Omega$
23. Capacitors are microfarads (μF) unless specified otherwise.
 $P=Micro-microfarad$.
24. Encircled numbers (e.g., ①, ②, ③, etc.) show the checkpoints for voltage. The values are marked in the standard voltage chart.

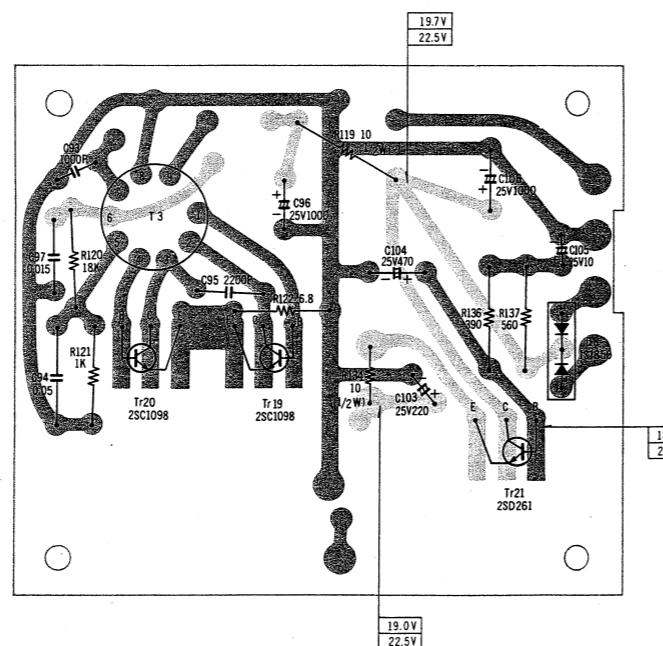


CIRCUIT BOARD

MAIN CIRCUIT BOARD ×2 (Front & Rear)



POWER CIRCUIT BOARD

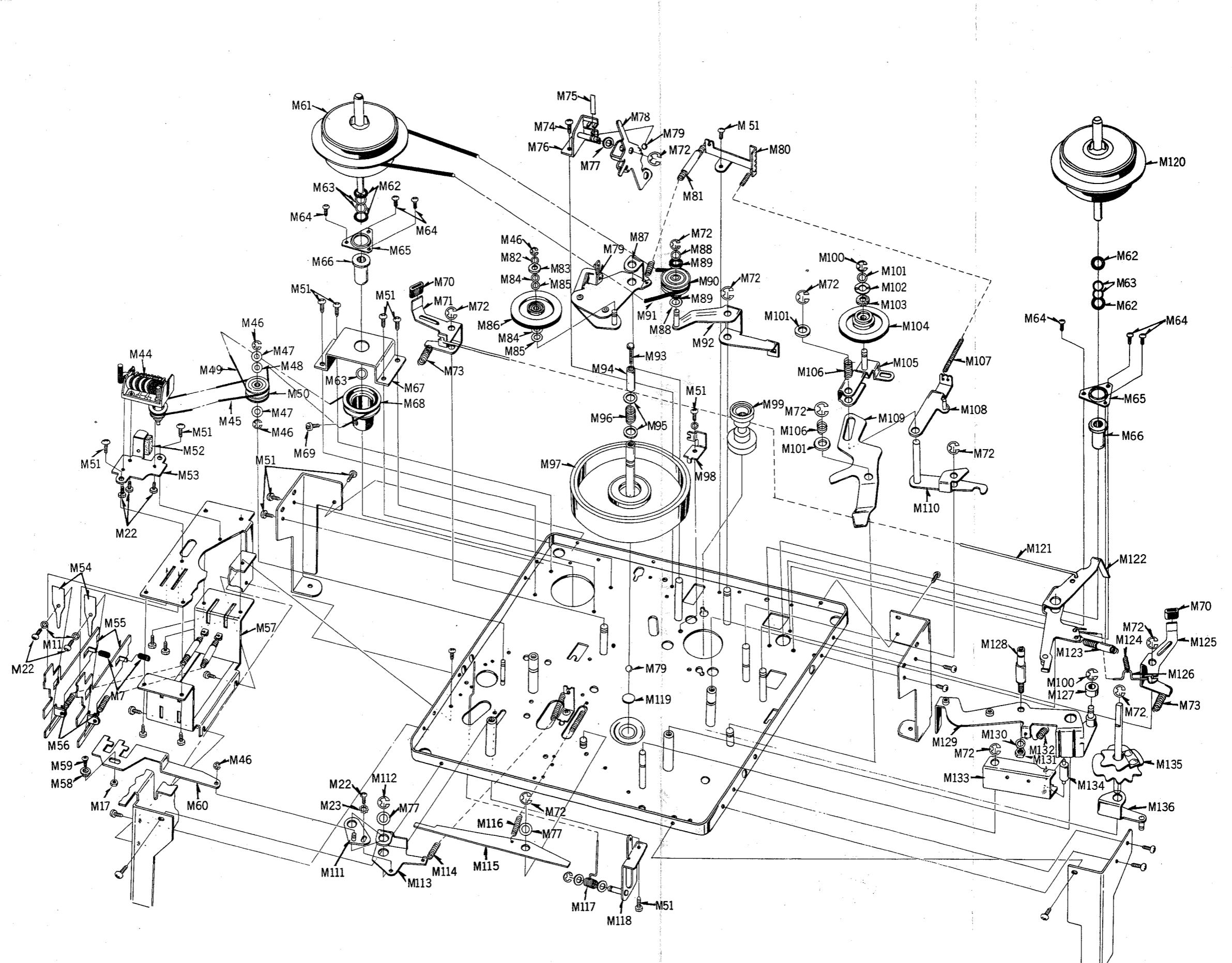


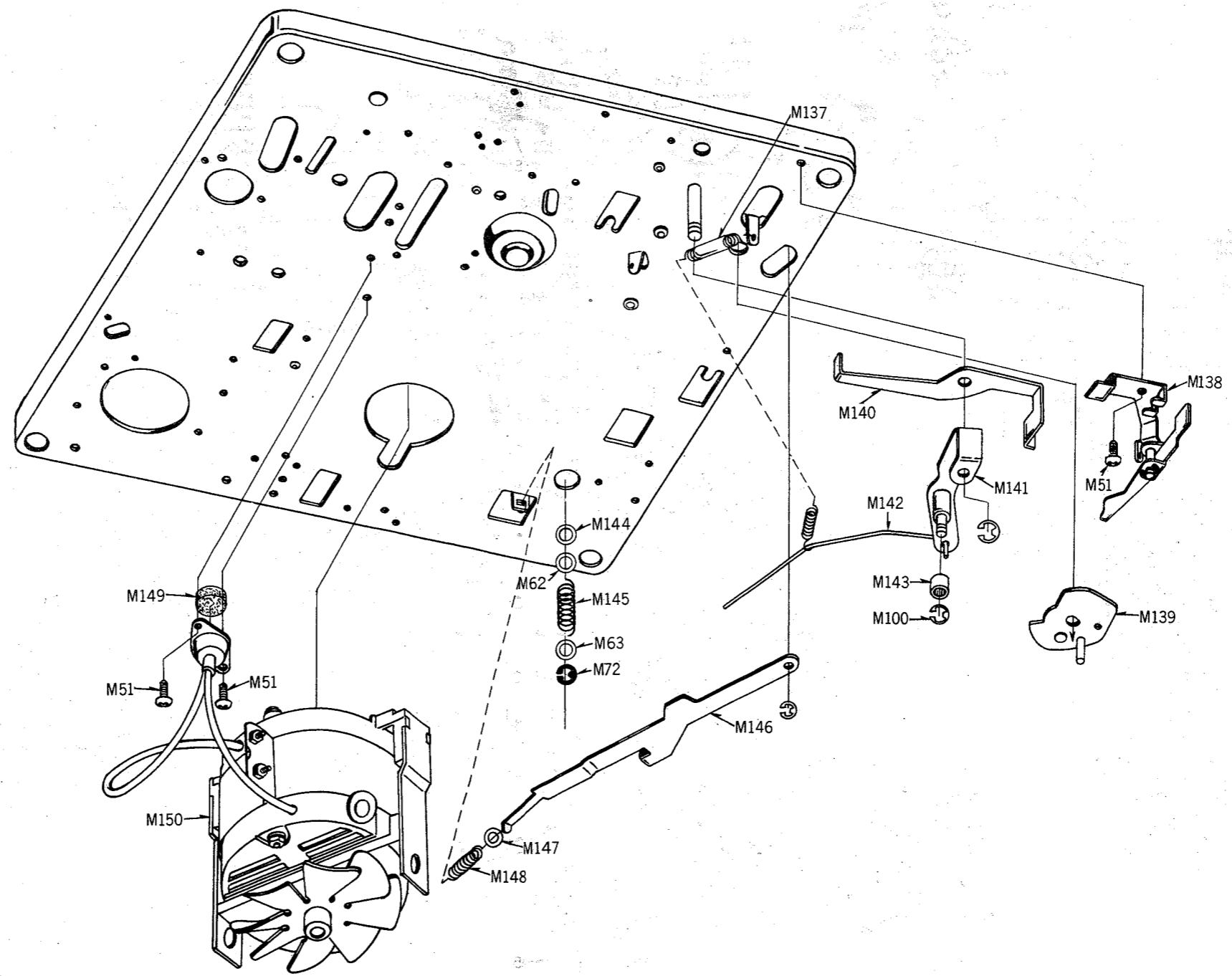
NOTE

The circuit shown in green on the conductor is +B circuit.

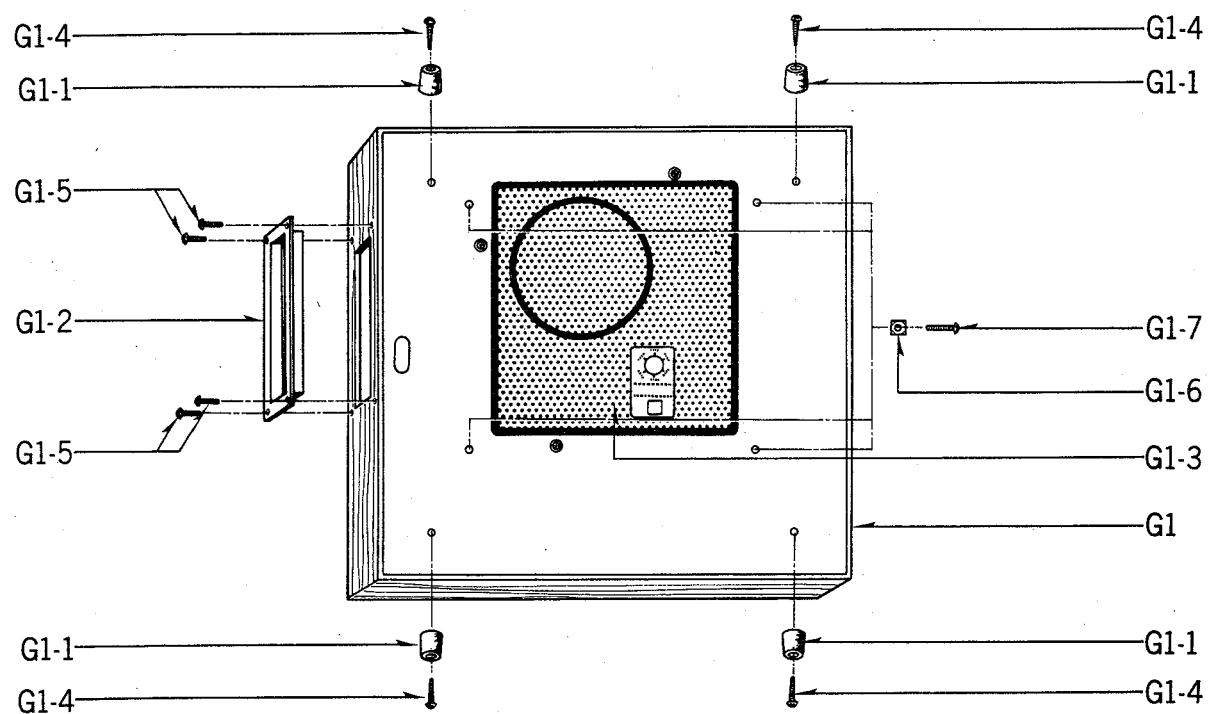
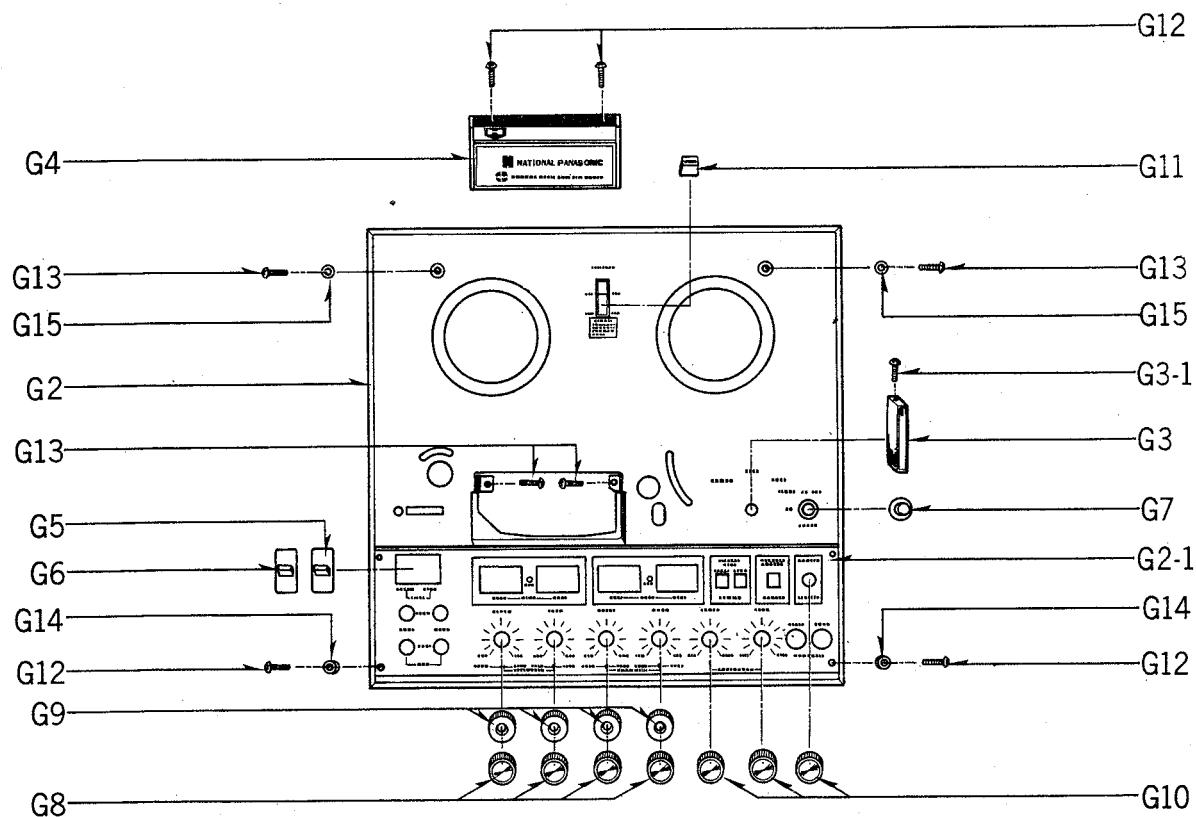
Values indicated in are DC voltages between the chassis and electrical parts.

The upper values should be measured during recording and the lower values during playback.





CABINET PARTS



REPLACEMENT PARTS LIST

MODEL RS-741US, RS-740US

NATIONAL PANASONIC



RS-741US, RS-740US

NOTE:

1. Be sure to make your orders of Replacement Parts according to this List.
2. "X" in "Rank" Column indicates that the part are not supplyable.
3. "A, B and C" in "Rank" Column indicates the recommended stock of replacement parts.
Refer to the recommended stock table on last page.
4. "★" in "Remarks" Column indicates New Parts.
5. "ISO" in "Remarks" Column indicates ISO Screw or Nut.

NOTA:

1. Habrá que asegurarse que los pedidos de piezas de repuesto se hagan según esta lista.
2. "X" marcado en la columna "Rank", quiere decir que dichas piezas no pueden ser provistas.
3. "A, B y C" marcadas en la columna "Rank" indican el surtido que se recomienda tener de dichas piezas de repuesto.
4. "★" marcado en la columna "Remarks", quiere decir que las piezas son nuevas.
5. "ISO" marcado en la columna "Remarks", quiere decir que es un tornillo o tuerca "ISO".

NOTE:

1. Bien s'assurer de se conformer à la liste suivante pour les commandes de pièces de rechange.
2. "X", dans la colonne "Rank", indique qu'il n'est pas possible de fournir ces pièces.
3. "A, B et C", dans la colonne "Rank", indiquent le stock recommandé de pièces de rechange.
Se reporter en dernière page au tableau des stocks/recommandés.
4. "★", dans la colonne "Remarks", indique les pièces nouvelles.
5. "ISO", dans la colonne "Remarks", indique une vis ou un écrou ISO.

HINWEIS:

1. Bestellen Sie Ihre Ersatzteile genau nach dieser Listé.
2. Mit "X" in der "Rank" Spalte aufgeführte Teile können nicht geliefert werden.
3. "A, B und C" in der "Rank" Spalte zeigt Ihnen den Vorrat der Ersatzteile an.
4. "★" in der "Remarks" Spalte bedeutet "neue Teile".
5. "ISO" in der "Remarks" Spalte bedeutet ISO-Schraube oder Mutter.

按:

1. 關於代用零件之訂購，務請依照此表而行之為荷。
2. 「等級」(Rank) 一欄中之 "X" 標記表示該零件無從供應。
3. 「等級」(Rank) 一欄中之 "A, B, C" 標記表示該零件有存貨，值得介紹。
請參照最後一頁的「值得介紹存貨表」。
4. 「備考」(Remarks) 一欄中之 "★" 形符號標記表示該零件為新出品。
5. 「備考」(Remarks) 一欄中之 "ISO" 符號標記表示國際標準化機構 (ISO) 式螺絲或螺母。

RS-741US, RS-740US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
MECHANICAL PARTS							
C	M1	Screw $\oplus 3 \times 8$	XSC3+8BCS	2			COMMON 
C	M2	Guide Roller Cap	QMQ1093A	1			RS-736US
B	M3	Guide Roller	QDP1332A	1			"
C	M4	Nylon Washer $5.2 \times 8 \times 0.25$	QBJ3217	2			COMMON
C	M5	Tension Arm-C Unit	QXA0101	1			★
C	M6	Fiber Washer $5.2 \times 10 \times 0.25$	QBK7085	1			COMMON
C	M7	Stop Rubber	QBG1132	6			RS-766US
C	M8	Guide Roller Shaft	QMS1484S	1			RS-736US 
C	M9	Tension Arm-C Spring	QBT1381	1			RS-768US
C	M10	Tension Arm-C Guide	QMA1351	1			★
C	M11	Spring Washer 3ϕ	XWA3B	9			COMMON
C	M12	Nut 3ϕ	XNG3ES	1			" 
C	M13	Screw $\oplus 3 \times 8$	XST3+8FXS	1			" 
C	M15	Tape Cleaner Guide	QBJ1566	1			RS-736US
C	M16	Tape Cleaner Felt	QBF1186	1			"
C	M17	Nut 2.6ϕ	XNG26E	4			COMMON
C	M18	Tape Guide Washer	QWQ1085	2			RS-790S
C	M19	Tape Limiter	QAG1107	2			RS-736US
C	M20	Tape Retainer	QAG1158	2			"
C	M21	Tape Guide Spring	QBC1138	3			RS-735US, 768US
C	M22	Screw $\oplus 3 \times 6$	XSN3+6FXS	13			COMMON 
C	M23	Lock Washer 3ϕ	XWC3BFK	3			"
C	M24	Tape Shifter	QAS1039	1			RS-768US
C	M25	Screw $\oplus 2 \times 4$	XSN2+4FX	12			COMMON
C	M26	Spring Washer 2ϕ	XWA2B	12			"
B	M27	Erase Pad Assembly	QXV0062	1			★
B	M27-1	Pad Felt	QAP1137	3			RS-736US
C	M28	Screw $\oplus 3 \times 10$	XSS3+10FXS	7			COMMON 

RS-741US, RS-740US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
x	M29	Erase Head Plate	QMZ1061S	1			RS-736US (ISO)
B	M30	Tape Guide	QAG1146	1			RS-768US, 790S 796US
B	M31	Record Pad Assembly	QXV0059	1			RS-736US, 768US
x	M32	Record/Playback Head Plate	QMZ1041	2			RS-736US
C	M32A	Head Fixing Band	QMF1557	1			★ For RS-741US Only
C	M32B	Playback Head Holder	QMF1558S	1			★ "
x	M32C	Playback Head Plate	QMZ1096	1			★ "
C	M33	Record/Playback Head Plate Spring	QBP1171	2			RS-736US
B	M34	Playback Pad Assembly	QXV0058	1			RS-736US, 768US
B	M35	Pressure Roller Cap	QMQ1094A	1			RS-736US
A	M36	Pressure Roller	QDP1245	1			RS-736US, 768US
C	M37	Tension Arm Spring	QBT1338	1			RS-736US
C	M38	Tension Arm Unit	QXA0088	1			RS-736US
C	M39	Tension Arm Guide	QMF1291	1			"
C	M40	Capstan Oil Cap	QDH1010A	1			RQ-706S RS-766US
C	M41	Tension Arm Felt	QBF1167	1			RS-768US
C	M42	Capstan Metal Felt	QBF1057	1			RQ-706S
x	M43	Capstan Metal Unit	QXP0199	1			RS-760S, 761S 766US
A	M44	Tape Counter	QDC0028S	1			RS-736US
A	M45	Counter Belt	QDB0061	1			RQ-706S RS-760S, 761S
C	M46	Stop Ring E3φ	XUC3FK	4			COMMON
C	M47	Fiber Washer 4.2×9×0.5t	QBK7005	2			"
C	M48	Nylon Washer 4.2×9×0.5t	QBJ3216	1			COMMON
A	M49	Counter Assistant Belt	QDB0097	1			RS-735US, 736US
B	M50	Counter Assistant Pulley	QDP1302	1			RS-736US
C	M51	Tapping Screw $\oplus 3 \times 8$	XTB3+8FX	15			COMMON
C	M52	Felt	QBF1170	1			RS-768US
x	M53	Tape Counter Angle	QMA1282	1			RS-768US
C	M54	Record Lever Spring-A	QBP1314	2			"

RS-741US, RS-740US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
C	M55	Record Lever-1	QML1824S	2			★ ISO
C	M56	Record Lever Spring-B	QBT1378T	2			RS-768US
X	M57	Record Lever Angle	QTT2084S	1			★ ISO
C	M58	Record Lever Guide	QMS1322	1			RS-761S, 766US
C	M59	Screw $\oplus 2.6 \times 6$	XSS26+6FX	1			COMMON
C	M60	Release Lever-5	QML1825	1			RS-736US
A	M61	Supply Reel Table Assembly	QXP0247	1			RS-735US, 768US
C	M62	Polythylene Slider	QBJ3042	9			COMMON
C	M63	Fiber Washer $6.5 \times 8.2 \times 1$	QBK7014	7			COMMON
C	M64	Screw $\oplus 3 \times 4$	XSN3+4FX	6			"
C	M65	Reel Table Metal Retainer	QMH1046	2			RS-736US
C	M66	Reel Table Metal	QMM1020	2			"
X	M67	Supply Reel Table Angle	QMA1130S	1			RQ-706S RS-766US ISO
B	M68	Reel Table Counter Pulley	QXP0261S	1			RS-736US ISO
C	M69	Screw $\oplus 4 \times 8$	XSN4+8FXS	1			COMMON ISO
B	M70	Brake Shoe	QBG1134	2			RS-736US
C	M71	Left Brake Lever	QML2163	1			"
C	M72	Stop Ring E5φ	XUC5B	12			COMMON
C	M73	Brake Spring-L	QBC1172	2			RQ-7063S
C	M74	Screw $\oplus 4 \times 6$	XSN4+6FXS	1			COMMON ISO
C	M75	Speed Select Flicker Spring	QBP1346	1			RQ-706S RS-736US
X	M76	Speed Select Shaft Angle Unit	QXL0576	1			★
C	M77	Fiber Washer $6.2 \times 11 \times 0.5$	QBK7003	3			COMMON
C	M78	Speed Select Lever	QML1821	1			★
B	M79	Steel Ball	QDK1003	2			RQ-706S RS-790S
X	M80	Spring Hanger	QMA1169	1			RS-736US
C	M81	Idler Arm Spring	QBT1379T	1			RS-768US
C	M82	Nylon Washer $4.2 \times 9 \times 0.5t$	QBJ3216	1			RS-736US
C	M83	Idler Felt-A	QBF5722	1			RS-760S, 768US

RS-741US, RS-740US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
C	M84	Nylon Washer 4.2×7×0.25	QBJ3215	2			RS-736US
C	M85	Nylon Washer 4.2×7×0.5t	QBJ3214	2			"
A	M86	Idler Unit	QXI0042	1			RS-790S, 796US
B	M87	Flywheel Idler Lever Arm Unit	QXL0575	1			★
C	M88	Idler Washer-A	QWQ1123	2			RS-275US
C	M89	Rewind Pulley Felt	QBF1155	2			RS-736US
B	M90	Rewind Pulley	QDP1247	1			RS-768US
A	M91	Rewind Belt	QDB0060	1			RQ-706US RS-760S, 761S
C	M92	Rewind Lever-2 Unit	QXL0249	1			RS-768US
B	M93	Capstan Screw (50 Hz)	QMQ1112S	1			RS-735US, 768US (ISO)
B	(M93)	Capstan Screw (60 Hz)	QMQ1111S	(1)			RS-736US, 768US (ISO)
A	M94	Capstan Sleeve (50 Hz)	QMS1348A	1			RQ-706S RS-760S, 766US
C	M95	Fiber Washer 8.2×12×0.5	QBK7049	2			RQ-706S
C	M96	Flywheel Spring	QBC1084	1			RQ-706S RS-760S, 766US
A	M97	Flywheel Unit	QXF0056S	1			RS-735US, 768US (ISO)
C	M98	Idler Stopper	QMA1127	1			RQ-706S RS-766US
B	M99	Motor Pulley	QXP0281	1			★
C	M100	Stop Ring E4φ	XUC4FK	2			COMMON
C	M101	Fiber Washer 5.2×8×0.5	QBK7095	2			"
C	M102	Idler Washer-B	QWQ1104	1			RS-768US
C	M103	Idler Felt-B	QBF1156	1			"
A	M104	Take up Idler Unit	QXI0055	1			RS-736US
B	M105	Take up Idler Lever Unit	QXL0578	1			★
C	M106	Take up Idler Lever Spring	QBC1189	1			RS-736US
C	M107	Stop Spring	QBT1398M	1			RQ-208S
C	M108	Take up Idler Lever-2 Unit	QXL0579	1			★
C	M109	Fast Forward Lever	QML2116	1			RS-766US
C	M110	Take up Idler Arm-1 Unit	QXA0140	1			★
C	M111	Release Lever-7 Unit	QXL0370	1			★

RS-741US, RS-740US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
C	M112	Stop Ring E6φ	XUC6B	1			COMMON
C	M113	Release Lever-6	QML1826S	1			★ ISO
C	M114	Release Lever Spring	QBT1435M	1			RS-736US
X	M115	Record Lock Plate	QMF1294	1			RS-736US
C	M116	Record Lock Spring	QBT1190M	1			"
C	M117	Shut Off Pin	QMQ1095	1			RS-768US
C	M118	Shut Off Angle Unit	QXE0015	1			RS-736US
X	M119	Thrust Retainer	QMQ1004	1			RS-755S
A	M120	Take up Reel Table Assembly	QXP0246B	1			RS-768US
C	M121	Brake Rod-1	QMR1057	1			RS-736US
C	M122	Stop Lever Unit	QXL0109	1			RS-736US
C	M123	Stop Lever Spring	QBT1229	1			RQ-706S RS-766US
C	M124	Brake Rod Spring	QBT1192	1			"
C	M125	Right Brake Lever	QML1426	1			RS-760S, 761S, 766US
C	M126	Brake Rod-2	QMR1064	1			RS-736US
C	M127	Click Roller	QDP1126	1			RS-736US
C	M128	Pressure Roller Shaft	QMS1480S	1			" ISO
C	M129	Pressure Roller Lever Unit	QXL0576	1			★
C	M130	Spring Washer 4φ	XWA4B	1			COMMON
C	M131	Nut 4φ	XNG4ES	1			" ISO
C	M132	Pressure Roller Lever Spring	QBT1186M	1			RS-736US
C	M133	Click Arm	QML1974	1			"
C	M134	Click Roller-1	QDP1125	1			"
B	M135	Operator Cam Unit	QXH0122	1			RQ-706S RS-760S, 766US
B	M136	Rewind Lever-1 Unit	QXL0111	1			RQ-706S
C	M137	Clicker Spring	QBT1377	1			RS-736US
C	M138	Stop Switch Angle Assembly	QXE0027	1			RS-760S, 761S, 766US
C	M139	Sub Cam Plate Unit	QXH0071S	1			RS-766US 768US ISO
C	M140	Record Lock Arm	QML1550	1			RS-736US, 763S
C	M141	Idler Off Arm Unit	QXA0139	1			★

RS-741US, RS-740US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
C	M142	Idler Off Rod	QMR1185	1			★
C	M143	Idler Off Roller	QDP1127	1			RQ-706S RS-766US
C	M144	Back Tension Washer	QBJ3015	1			RS-736US
C	M145	Back Tension Spring	QBC1064	1			"
C	M146	Rewind Arm	QML1280	1			"
C	M147	Fiber Washer 6.2×11×0.5	QBK7003	1			COMMON
C	M148	Rewind Arm Spring	QBC1057	1			RQ-706S RS-766US
C	M149	Motor Oil Cap Felt	QBF1026	1			RS-736US
A	M150	Motor Assembly	4KC20GPLS	1			★ <small>(ISO)</small>
		RESISTORS					
B	R1, 2	Carbon Resistor 3.9 KΩ 1/4 W	ERD14TJ392	4			
B	R3, 4, 7, 8, 17, 18, 31, 32, 57, 58, 79, 80, 141, 142						
		" 220 KΩ 1/4 W	ERD14TJ224	28			
B	R5, 6, 45, 46, 201, 202	" 10 KΩ 1/4 W	ERD14TJ103	12			
B	R9, 10, 37, 38	" 180Ω 1/4 W	ERD14TJ181V	8			
B	R11, 12, 25, 26, 29, 30, 63, 64, 73, 74						
		" 1.8 KΩ 1/4 W	ERD14TJ182V	20			
B	R13, 14, 19, 20, 59, 60	Carbon Resistor 15 KΩ 1/4 W	ERD14TJ153V	12			
B	R15, 16, 65, 66, 91, 92	" 33 KΩ 1/4 W	ERD14TJ333V	12			
B	R21, 22, 23, 24, 35, 36, 83, 84						
		" 6.8 KΩ 1/4 W	ERD14TJ682V	16			
B	R27, 28	" 18 KΩ 1/4 W	ERD14TJ183	4			
B	R33, 34, 43, 44, 81, 82	" 82 KΩ 1/4 W	ERD14TJ823V	12			
B	R39, 40, 87, 88	Carbon Resistor 2.7 KΩ 1/4 W	ERD14TJ272V	8			
B	R41, 42, 77, 78, 99, 100, 101, 102, 145, 146						
		" 56 KΩ 1/4 W	ERD14TJ563V	20			
B	R47, 48, 69, 70,	" 4.7 KΩ 1/4 W	ERD14TJ472V	8			
B	R49, 50	" 560Ω 1/4 W	ERD14TJ561V	4			
B	R51, 52, 71, 72, 93, 94, 103, 104, 143, 144						
		" 2.2 KΩ 1/4 W	ERD14TJ222V	20			

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Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
B	R53, 54	Carbon Resistor 47Ω 1/4 W	ERD14TJ470V	4			
B	R55, 56	" 100Ω 1/4 W	ERD14TJ101	4			
B	R61, 62	" 270Ω 1/4 W	ERD14TJ271V	4			
B	R67, 68	" 120KΩ 1/4 W	ERD14TJ124V	4			
B	R85, 86	" 390Ω 1/4 W	ERD14TJ391V	4			
B	R89, 90	Carbon Resistor 100KΩ 1/4 W	ERD14TJ104V	4			
B	R95, 96	" 150Ω 1/4 W	ERD14TJ151V	4			
B	R97, 98	" 820Ω 1/4 W	ERD14TJ821V	4			
B	R105, 106	" 3.3KΩ 1/4 W	ERD14TJ332	4			
B	R119, 134	Solid Resistor 10Ω 1/2 W	ERC12GM100	2			
B	R120	Carbon Resistor 18KΩ 1/4 W	ERD14TJ183	1			
B	R121	" 1KΩ 1/4 W	ERD14TJ102	1			
B	R122	" 6.8Ω 1/4 W	ERD14TJ6R8	1			
B	R135, 138	Solid Resistor 27Ω 1/2 W	ERC12GM270	2			
B	R136	Carbon Resistor 390Ω 1/4 W	ERD14TJ391	1			
B	R137	Carbon Resistor 560Ω 1/4 W	ERD14TJ561	1			
		VARIABLE RESISTORS					
A	VR1, 2, 7, 8, 15, 16	Semi-fixed Variable Resistor 10 K(B)	QLV00AA00B14	12			RS-275US
A	VR3, 4, 18, 19	Variable Resistor 5 K(A)	EVFF1AN2853	8			★
A	VR5, 6	Semi-fixed Variable Resistor 10 K(B)	EVL42AA00B14	4			★
A	VR9, 10	" 1K(B)	QLV00AA00B13	4			RS-253S
A	VR11, 12	" 100 K(B)	QLV00AA00B15	4			RS-275US
A	VR13, 14	Semi-fixed Variable Resistor 5 K(B)	QLV00AA00B53	4			★
A	VR17	" 50 K(A)	EVC11AL30A54	2			★
		CAPACITORS					
B	C1, 2, 49, 50	Electrolytic Capacitor 33μF	ECEA10V33N	8			
B	C3, 4, 51, 52	" 3.3μF	ECEA25V3R3N	8			
C	C5, 6, 43, 44, 53, 54, 61, 62, 201, 202						
		Mylar Capacitor 1000 pF	ECQM05102KZ	20			

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Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
					QTY	Unit	
B	C7, 8, 15, 16, 21, 22, 25, 26, 27, 28, 29, 30, 55, 56, 65, 66, 73, 74, 77, 78, 83, 84, 87, 88	Electrolytic Capacitor 10 μ F	ECEA16V10N	48			
C	C9, 10, 11, 12	Ceramic Capacitor 47 pF	ECCD05470K	8			
C	C11, 12	Aluminum Capacitor 0.68 μ F	ECAG25ER68	4			
C	C13, 14	Styrol Capacitor 220 pF	ECQS1221KZ	4			
B	C17, 18, 59, 60, 67, 68	Electrolytic Capacitor 47 μ F	ECEA10V47N	12			
B	C19, 20, 69, 70	" 220 μ F	ECEA16V220N	8			
C	C23, 24, 75, 76	Styrol Capacitor 100 pF	ECQS1101KZ	8			
B	C31, 32, 57, 58, 81, 82	Electrolytic Capacitor 100 μ F	ECEA6V100N	12			
C	C33, 34	Mylar Capacitor 0.022 μ F	ECQM05223KZ	4			
C	C35, 36	" 0.068 μ F	ECQM05683KZ	4			
C	C39, 40, 79, 80, 91, 92	" 0.01 μ F	ECQM05103KZ	12			
C	C45, 46	Styrol Capacitor 220 pF	ECQS1221KZ	4			
C	C63, 64	Mylar Capacitor 0.027 μ F	ECQM05273KZ	4			
C	C71, 72	" 0.15 μ F	ECQM05154KZ	4			
B	C85, 86	Electrolytic Capacitor 220 μ F	ECEA10V220N	4			
B	C89, 90	" 33 μ F	ECEA16V33N	4			
C	C93	Styrol Capacitor 1000pF	ECQS5102J	1			
C	C94	Mylar Capacitor 0.056 μ F	ECQM05563KZ	1			
C	C95	Styrol Capacitor 2200 pF	ECQS1222KZ	1			
B	C96, 106	Electrolytic Capacitor 1000 μ F	ECEA25V1000N	2			
C	C97	Mylar Capacitor 0.15 μ F	ECQM05154KZ	1			
B	C103	Electrolytic Capacitor 220 μ F	ECEA25V220N	1			
B	C104	Electrolytic Capacitor 470 μ F	ECEA25V470N	1			
B	C105	" 10 μ F	ECEA25V10N	1			
C	C107	Oil Capacitor 0.1 μ F	ECND6104M	1			
C	C108	Paper Capacitor 0.25 μ F	ECHR2254M	1			
C	C203, 204	Styrol Capacitor 390 pF	ECQS1391KZ	4			
C	C205, 206	Ceramic Capacitor 270 pF	ECCD05271	1			For RS-741US Only

RS-741US, RS-740US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
					Unit	Value	
TRANSISTORS							
A	Tr1, 2, 3, 4, 5, 6, 13, 14	Transistor	2SC644(RST)	16			RS-270US, 275US
A	Tr7, 8, 15, 16, 17, 18	"	2SC828	12			"
A	Tr9, 10, 11, 12	"	2SC644®(RST)	8			"
A	Tr19, 20	"	2SC1098(L)	2			★
A	Tr21	"	2SD261	1			RS-275US
DIODES							
A	D1, 2	Diode	OA90Z	4			COMMON
A	D3	Silicon Diode	1S1850	1			RS-275US, 735US
TRANSFORMERS							
A	T1, 2	Headphone Transformer	QLA0349	4			RS-270US, 275US 736US
A	T3	Oscillator Coil	QLB0149	1			★
A	T4	Power Transformer	QLP0495	1			★
COILS							
A	L1, 2	Peaking Coil	QLH2009	4			RS-715US, 736US
A	L3, 4	"	QLH2008	4			RS-270US, 715US 736US
A	L5, 6	Trap Coil	QLH2014	4			★
A	L7, 8	Erase Head Dummy Coil	QLH9010	2			RS-715US
SWITCHES							
A	S1	Lever Switch (Tape/Source Selector)	QST0030S	1			★ ISO
A	S3, 4	Slide Switch (Record/Playback Selector)	QSS1131	2			★
A	S5	Rotary Switch (Equalizer Selector)	QSRE282L30AS	1			★
A	S6	Lever Switch (Tape/Source Selector)	QST0030S	1			★ ISO
A	S7	Slide Switch (Stop)	QSS1107	1			RQ-229S
A	S9	Push Switch (Power ON/OFF)	QSW0114S	1			RS-275US, 2571S ISO
A	S10	Micro Switch (Shut Off)	QSM0017	1			RS-736US, 768US 810S
A	S11	Slide Switch (50 Hz/60 Hz Selector)	QSS1103	1			RS-736US
A	S12	Lever Switch (Tape Selector)	QST0030S	1			★ ISO
A	S13	Rotary Switch (AC Voltage Selector)	ESER226S20AE	1			★

RS-741US, RS-740US

Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
ELECTRICAL PARTS							
C	E1	Record Head	WY457W	1			★
C	E2	Playback Head	QWY4006A	1			For RS-741US ★ Only
C	E2	Playback Head (HPF)	WY458W	1			For RS-740US ★ Only
A	E3	Erase Head	WY551W	1			★
A	E4	VU Meter	QSL0062	4			RS-253S, 820S
A	E5	Pilot Lamp	XAMR9S	4			RS-270US
A	E6	Pilot Lamp	XAMQ10S	2			★
A	E7	Headphone Jack	QJA0229	2			RS-253S, 267S
B	E8	Headphone Jack Nut	QNQ1033	2			COMMON
A	E9	Fuse 2.0A	XBA1E20NR3	1			"
B	E10	Fuse Holder-B	QTF1034	5			COMMON
A	E11	M3 Jack	QJA0115	4			"
C	E12	Cord Bushing	QTD1126A	1			"
B	E13	AC Power Cord	QFC1022	1			"
C	E14	Headphone Jack Board	QGJ1188	1			★
C	E15	M3 Jack Board	QGJ1189	1			★
C	E16	Terminal Board	QJT3006	3			COMMON
C	E17	Jack Board Assembly	QEJ0176	1			★
CABINET PARTS							
B	G1	Body Case Assembly	QYJ1273S	1			★ 
C	G1-1	Rubber Foot	QKA1054B	4			★
C	G1-2	Jack Ornament Frame	QJB1482	1			★
X	G1-3	Motor Cover	QGC1025	1			★
C	G1-4	Screw $\oplus M3.8 \times 20$	XMM38+20	4			COMMON
C	G1-5	Screw $\oplus M2.7 \times 8$	XMM27+8FZ	4			COMMON
C	G1-6	Washer	QWQ1083	4			"
C	G1-7	Screw $\oplus PH4 \times 35$	XSN4X35S	4			" 
B	G2	Panel	QGP1202	1			★

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Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
B	G2-1	Amplifier Panel	QGP1209	1			★
A	G3	Function Knob Assembly	QYT0163S	1			★ ISO
B	G3-1	Function Knob Holding Screw	QHQ1157S	1			★ ISO
B	G4	Head Cover Assembly	QYR0131S	1			For RS-741US ★ Only ISO
B	G4	Head Cover Assembly	QYR0123S	1			For RS-740US ★ Only ISO
A	G5	Record Button Assembly-R	QXM0064S	1			RS-736US, 768US ISO
A	G6	Record Button Assembly-L	QXM0065S	1			" ISO
A	G7	Power Button Assembly	QYT0114	1			RS-736US, 820S, 2571S
A	G8	Knob-A	QGT3021	4			RS-840S
A	G9	Knob-B	QGT3022	4			"
A	G10	Knob-C	QGT3023	3			"
A	G11	Speed Selector Knob	QGT2061	1			★
C	G12	Screw \oplus PH3 \times 8	XSN3+8FZS	4			COMMON ISO
C	G13	Screw \oplus PH3 \times 8	XSN3+8FCS	4			" ISO
C	G14	Panel Washer	QBJ3101	2			★
C	G15	Washer	QBJ3007	2			
ACCESSORIES							
A	A1	7" Empty Reel	QFR76CNZ	1			COMMON
A	A2	Connection Cord-G	QEB0060P	4			RS-262US, 270US, 275US, 845US
A	A3	Splicing Tape	QFS2	1			COMMON
A	A4	Head Cleaning Ribbon	QFQ1015	1			"
A	A5	Reel Holder	QBG1030	2			"
B	A6	Tape Cleaner Felt	QBF1186	2			RS-768US
A	A7	Instruction Book	QQT1584	1			★
PACKINGS							
C	P1	Inner Packing	QPN2627	1			★
C	P1	Inner Packing	QPN2541	1			★
C	P2	Inner Cushion	QPN2405	1			★
C	P3	Inner Cushion	QPN2406	4			★

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Rank	Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
C	P4	Inner Cushion	QPN2407	1			★
C	P5	Accessory Bag	QFV0047	1			RS-845US,847US
C	P6	Dust Cover	XZB60X80A08	1			★

RECOMMENDED STOCK OF REPLACEMENT PARTS

Rank of Part	Estimated Selling Q'ty of Tape Recorder Set					
	Less than 50	100	300	500	1,000	2,000
A rank Parts	2	5	15	20	40	80
B rank Parts	1	2	5	10	20	40
C rank Parts	0	1	3	5	10	20